

In the Claims:

Please amend Claims 72, 80, and 81. Please cancel claims 63-71, 73-79, and 82-83.

This listing of the claims will replace all prior versions, and listings, of claims in the application:

1. – 71. **(Canceled)**

72. **(Currently amended)** A method for identifying a modulator of binding between a DmGPCR and an allatostatin, comprising the steps of:

- (a) contacting an allatostatin and a composition comprising a DmGPCR in the presence and in the absence of a putative modulator compound;
- (b) detecting binding between the allatostatin and the DmGPCR; and
- (c) determining whether binding in the presence of said putative modulator is increased or decreased compared to binding in the absence of said putative modulator compound, whereby putative modulator compounds that increase or decrease binding are identified as binding modulators;

wherein the DmGPCR is DmGPCR4 that has the sequence of SEQ ID NO:8.

and wherein the allatostatin is a peptide having SEQ ID NO:161.

73 – 79. **(Canceled)**

80. **(Currently amended)** The method of claim [[64]] 72 wherein modulation of binding is determined by a gel-shift assay.

81. **(Currently amended)** The method of claim [[64]] 72 wherein modulation of binding is determined by a protein binding assay.

82 – 83. **(Canceled)**